

MCM2 Recombinant monoclonal antibody

Catalog Number: 84511-9-RR

Basic Information

Catalog Number: 84511-9-RR	GenBank Accession Number: BC007670	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4171	CloneNo.: 241968C4
Isotype: IgG	UNIPROT ID: P49736	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:1000-1:4000 IF/ICC: 1:500-1:2000
Immunogen Catalog Number: AG0798	Full Name: minichromosome maintenance complex component 2	
	Calculated MW: 102 kDa	
	Observed MW: 116-125 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HeLa cells, NIH/3T3 cells, HSC-T6 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human tonsil tissue, human stomach tissue
	IF/ICC : HepG2 cells, HeLa cells, MCF-7 cells

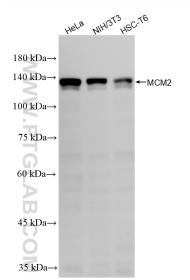
Background Information

The MCM2-7 complex forms the core of the replicative helicase which acts as the molecular motor that uses ATP binding and hydrolysis to fuel the unwinding of double-stranded DNA at the replication fork in eukaryotes. This complex is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. MCM2, also named CDCL1 and BM28, is a human nuclear protein that plays an important role in 2 crucial steps of the cell cycle, namely, onset of DNA replication and cell division.

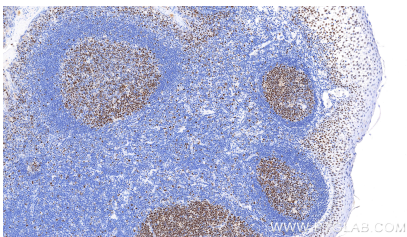
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

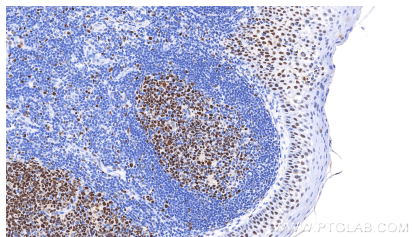
Selected Validation Data



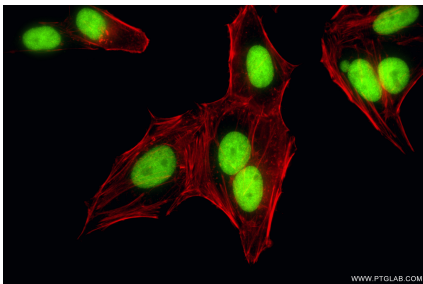
Various lysates were subjected to SDS PAGE followed by western blot with 84511-9-RR (MCM2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



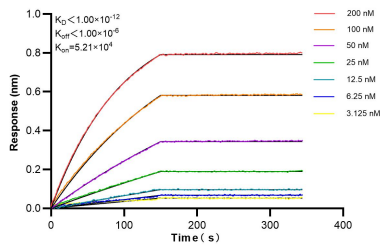
Immunohistochemical analysis of paraffin-embedded human tonsil tissue slide using 84511-9-RR (MCM2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsil tissue slide using 84511-9-RR (MCM2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MCM2 antibody (84511-9-RR, Clone: 241968C4) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 84511-9-RR against Human MCM2 were performed. The affinity constant is below 1 pM.